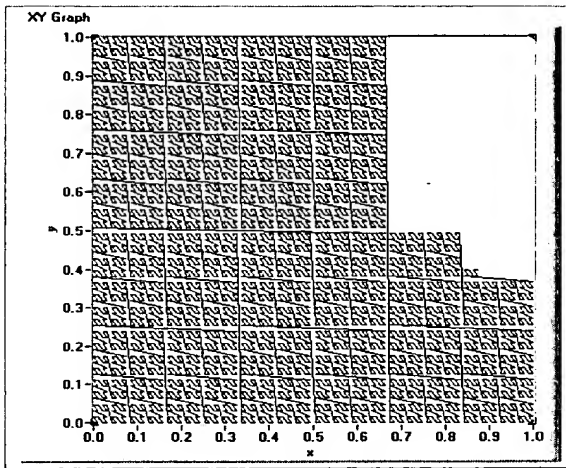
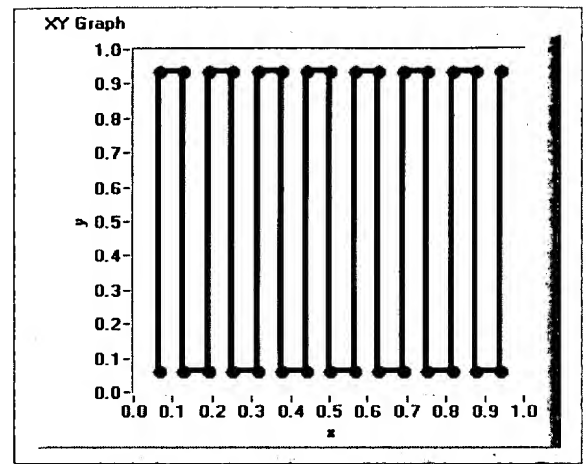


09876543210



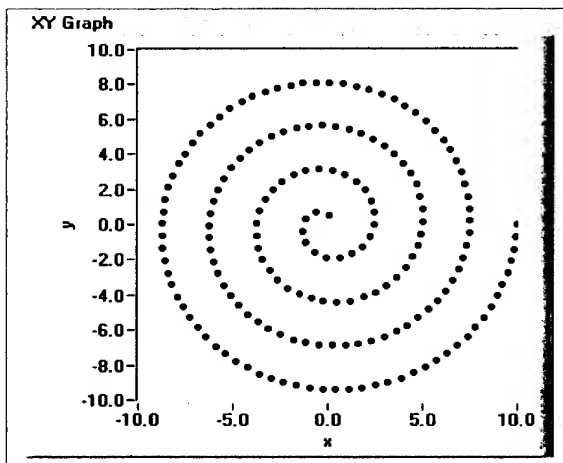
Approximated Peano Curve. The space-filling process has not been completed.

Figure 1A (Prior Art)



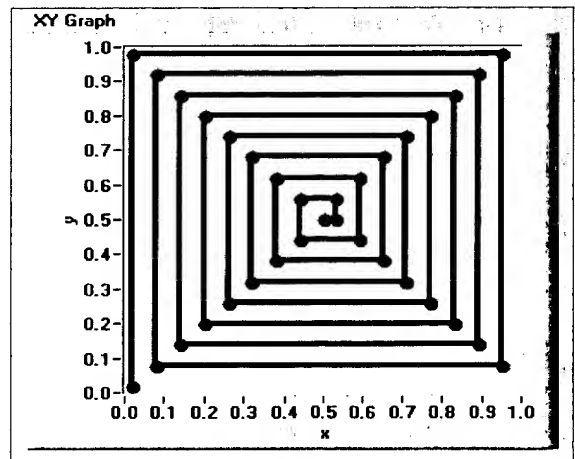
Boustrophedon Path

Figure 1B (Prior Art)



Archimedes Spiral defined by equally distributed points

Figure 1C (Prior Art)



Spiral-like line-based scanning

Figure 1D (Prior Art)

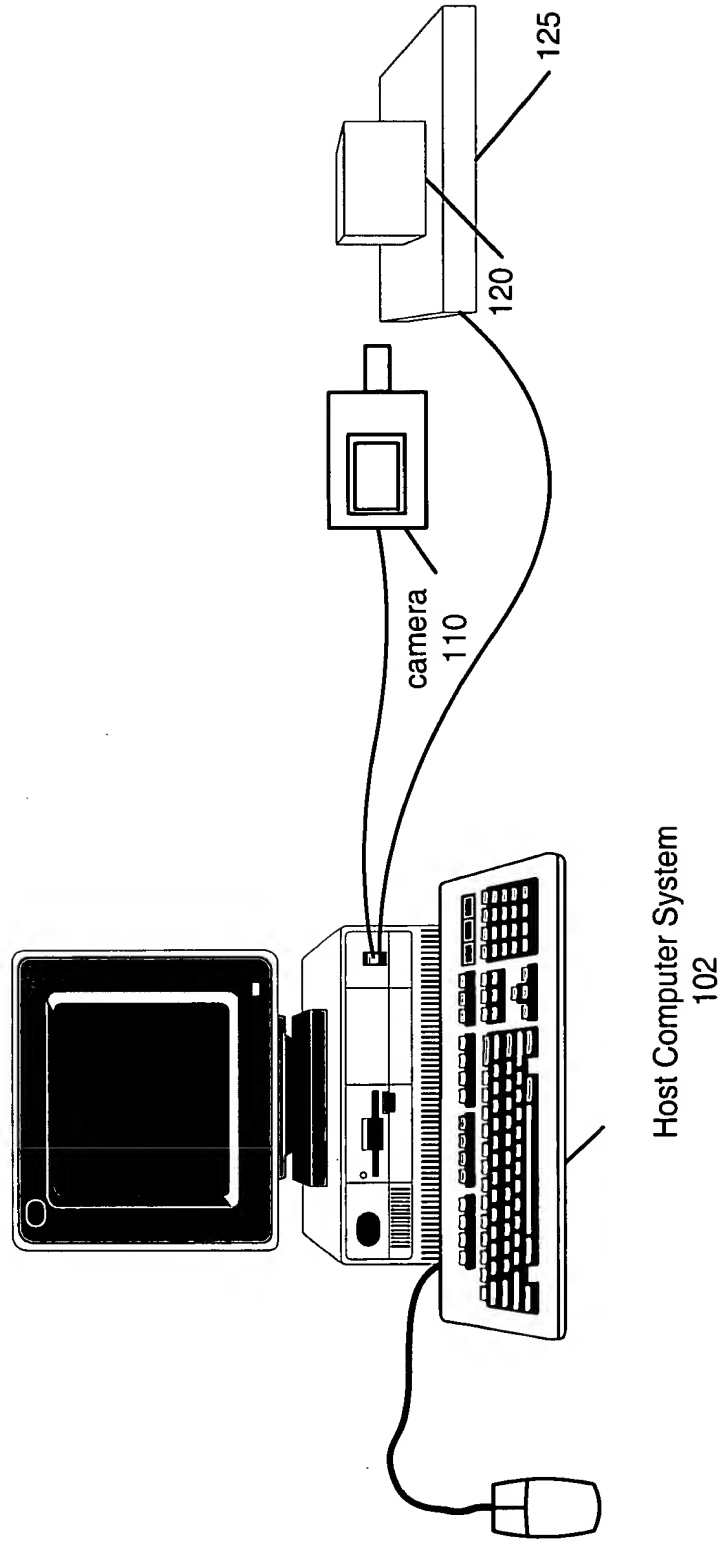


Figure 2A

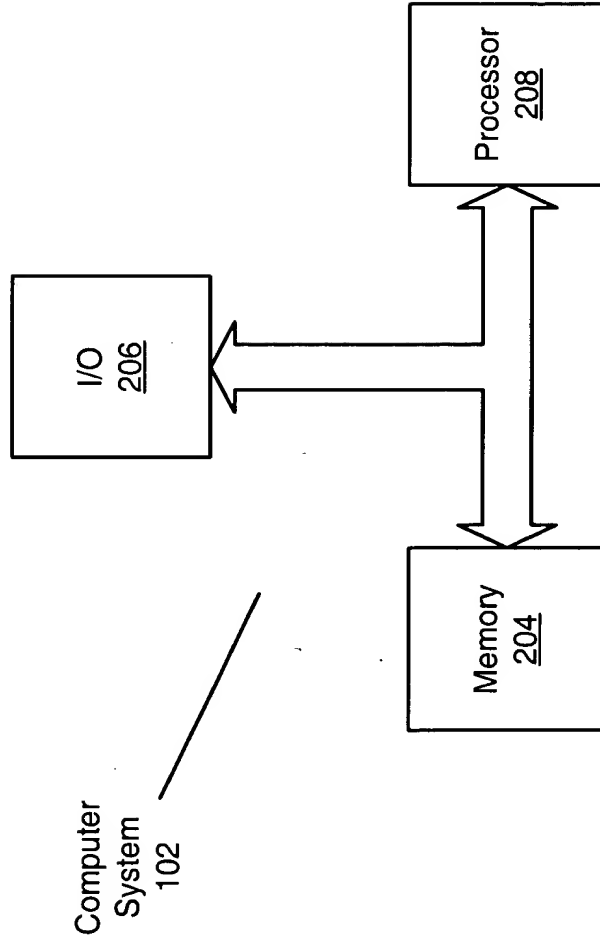


Figure 2B

108090" 22692860

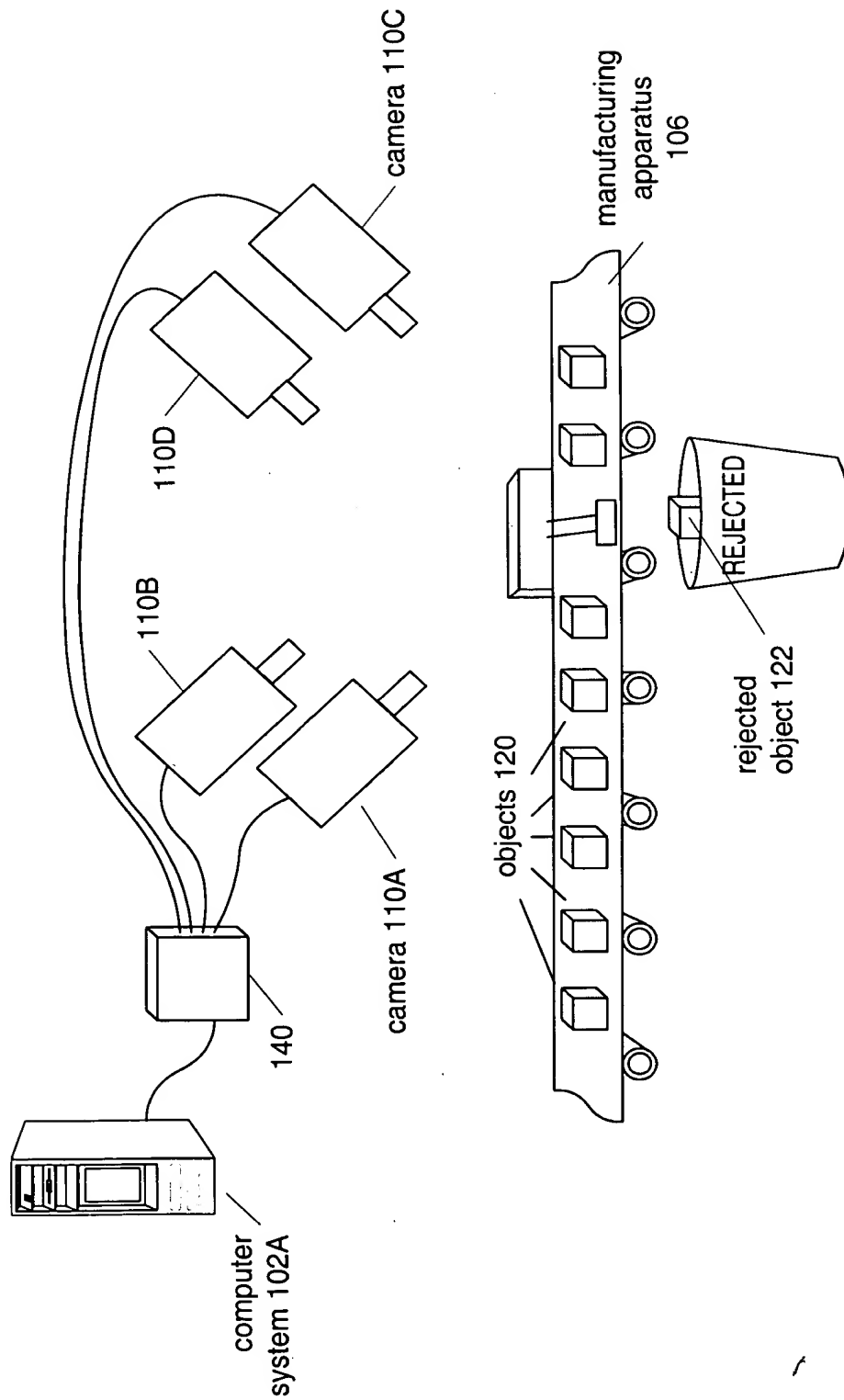


Figure 3A

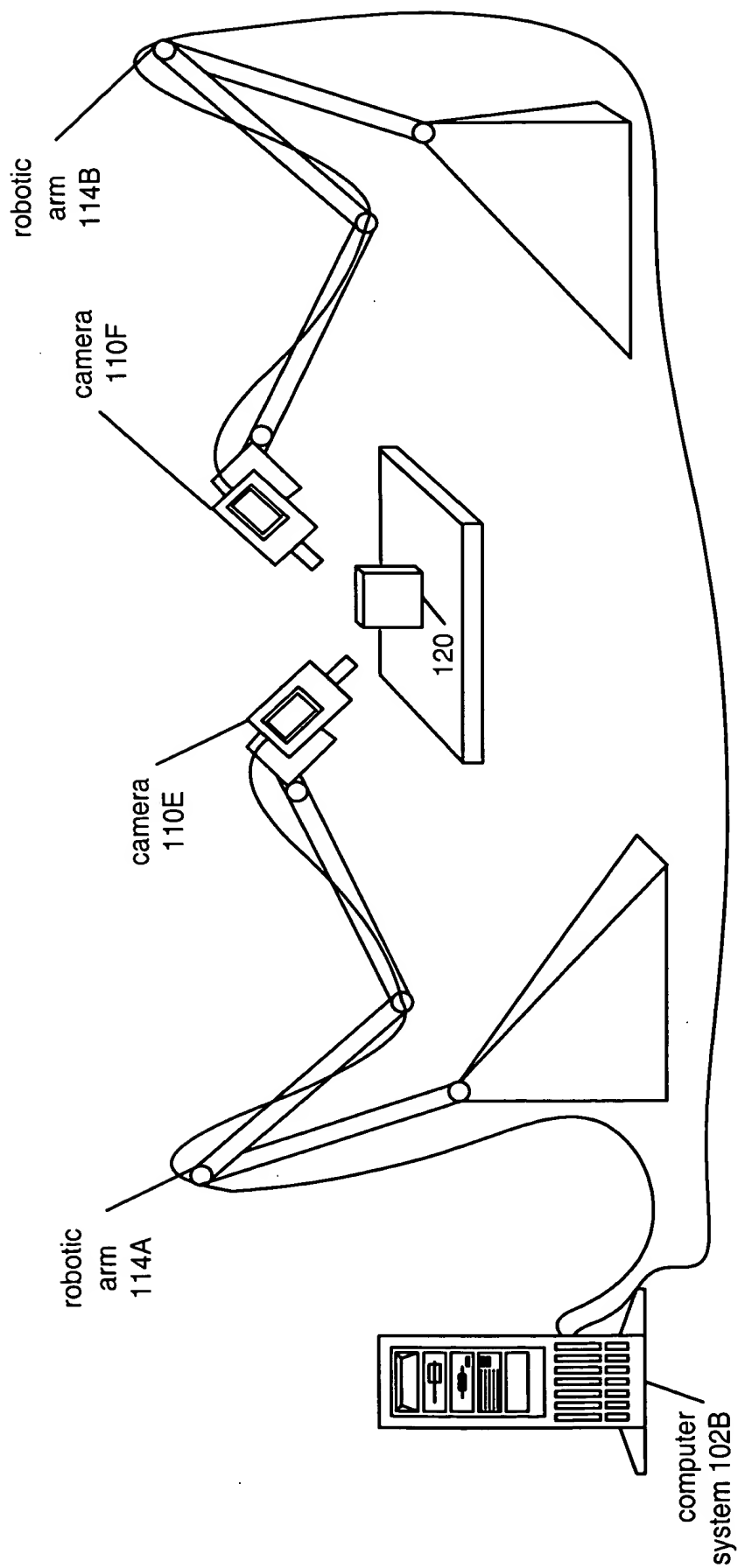


Figure 3B

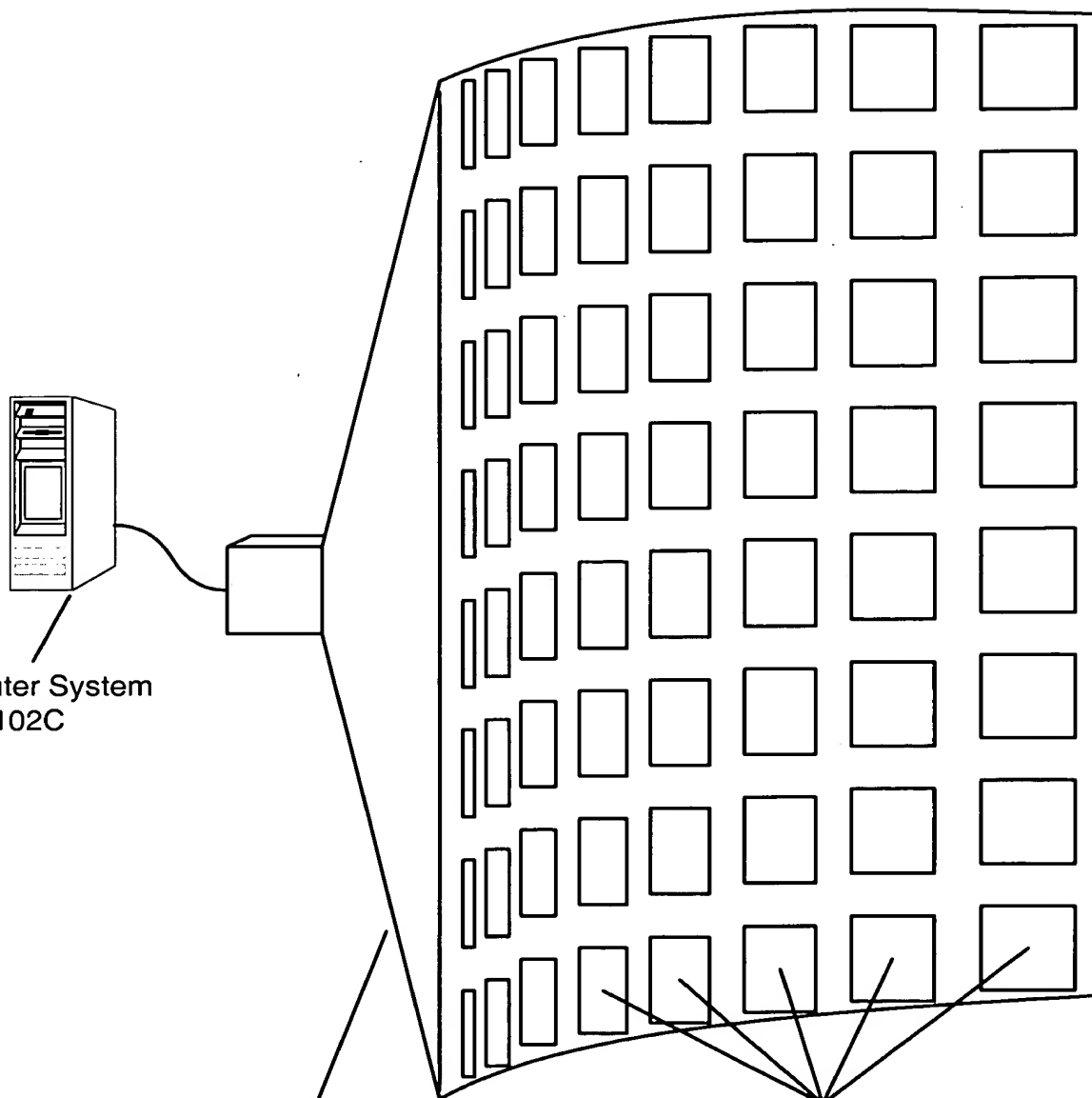
0997697-660801

Computer System
102C

Phased Array
306

Array Elements
304

Figure 3C



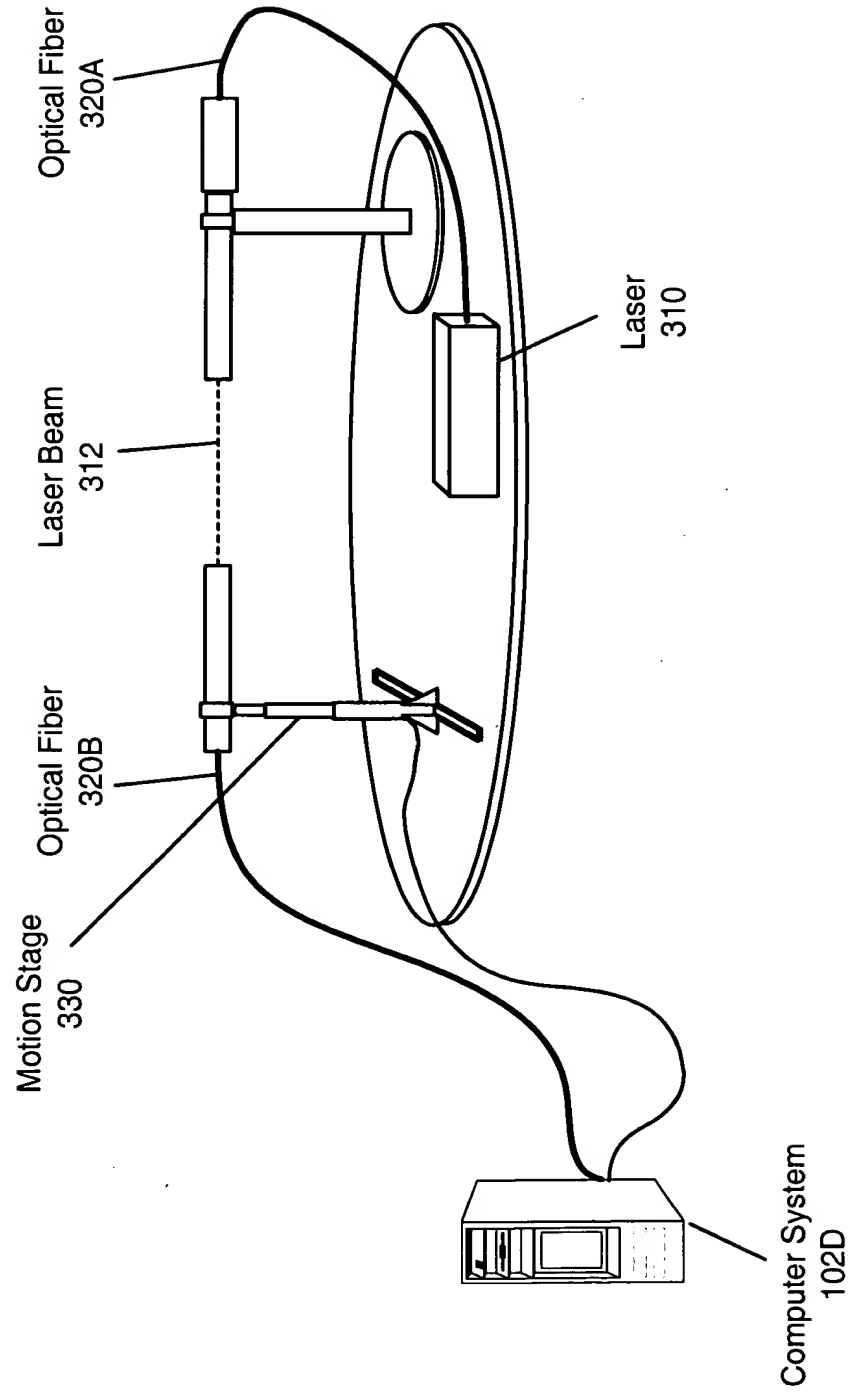
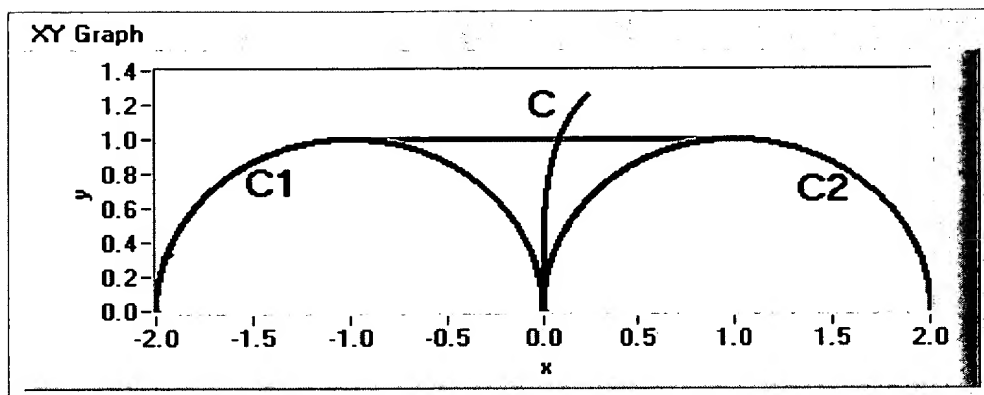
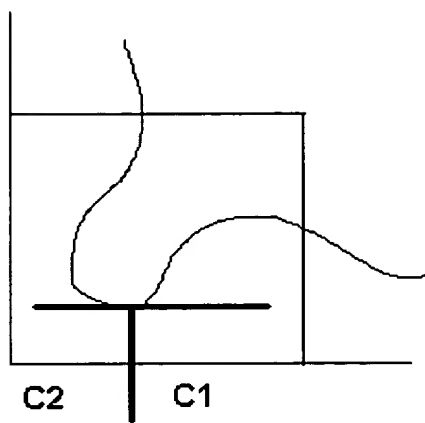


Figure 3D



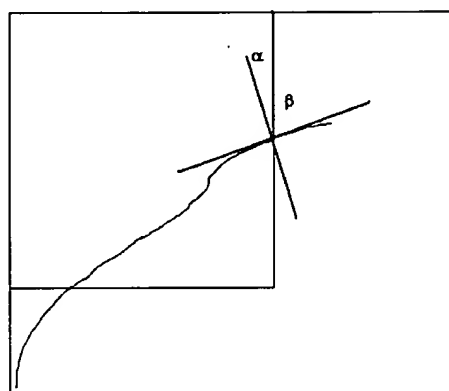
The situation of Lemma 1

Figure 4A



Case (A)

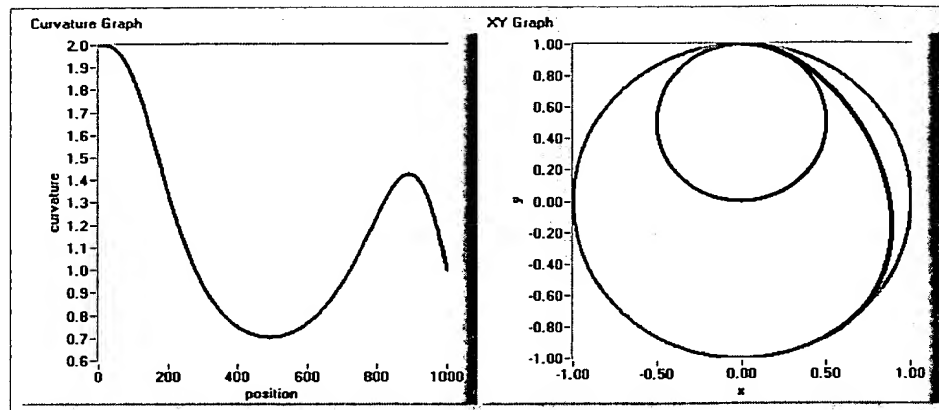
Figure 4B



Case (B)

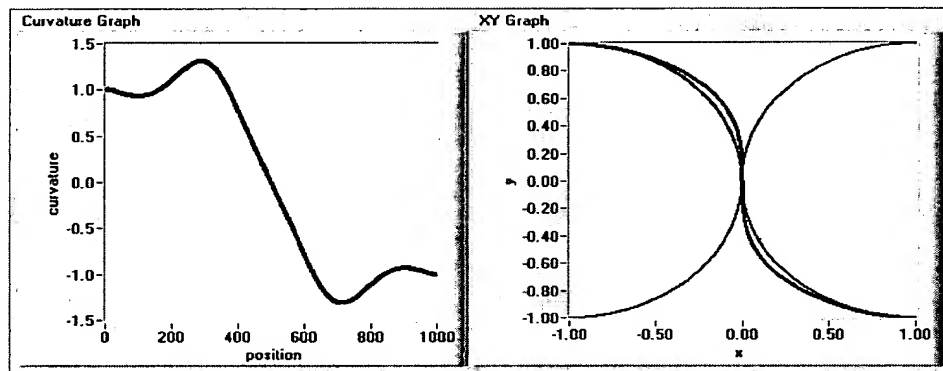
Figure 4C

09076977 050801



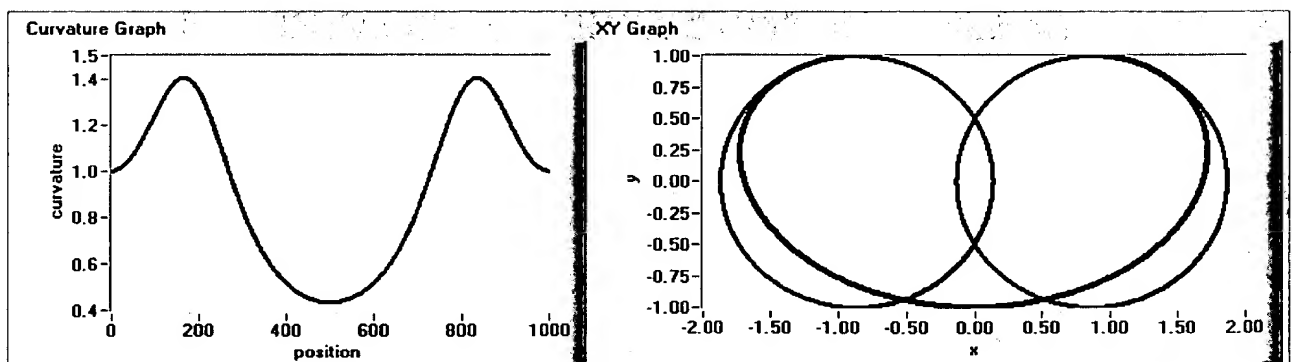
Smooth transition between two circles of different radii.

Figure 4D



Smooth transition between two circles of same radius.

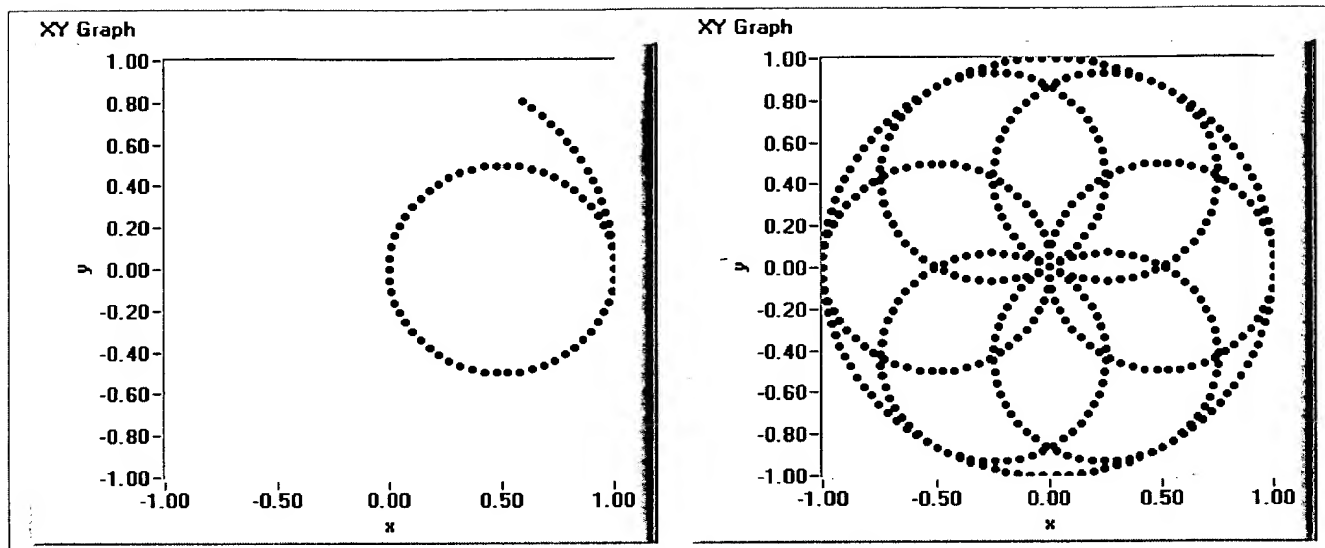
Figure 4E



Transition between two unit circles of radius 1. The distance between the circles is $\sqrt{3}$

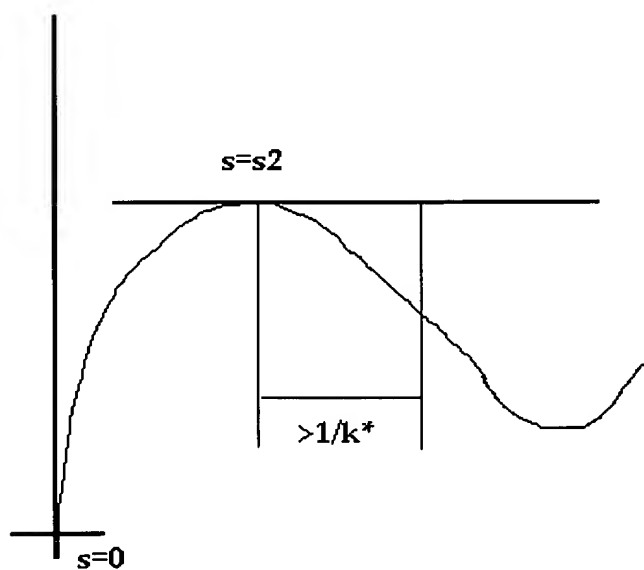
Figure 4F

060900 22692850



Beginning (left) and completion (right) of a scanning scheme where the curvature is below a certain value

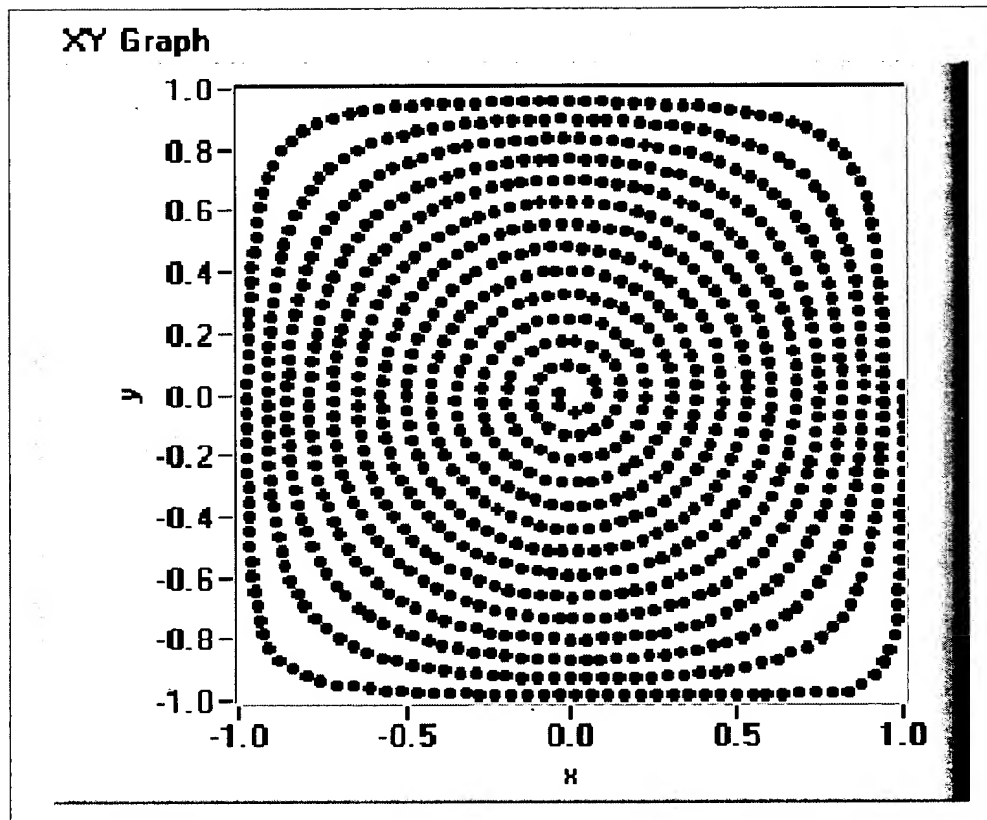
Figure 5A



Construction of $s2$ and the subsequent part of the curve

Figure 5B

09875977.060804



Conformal Spiral.

Figure 6

105090-24592663

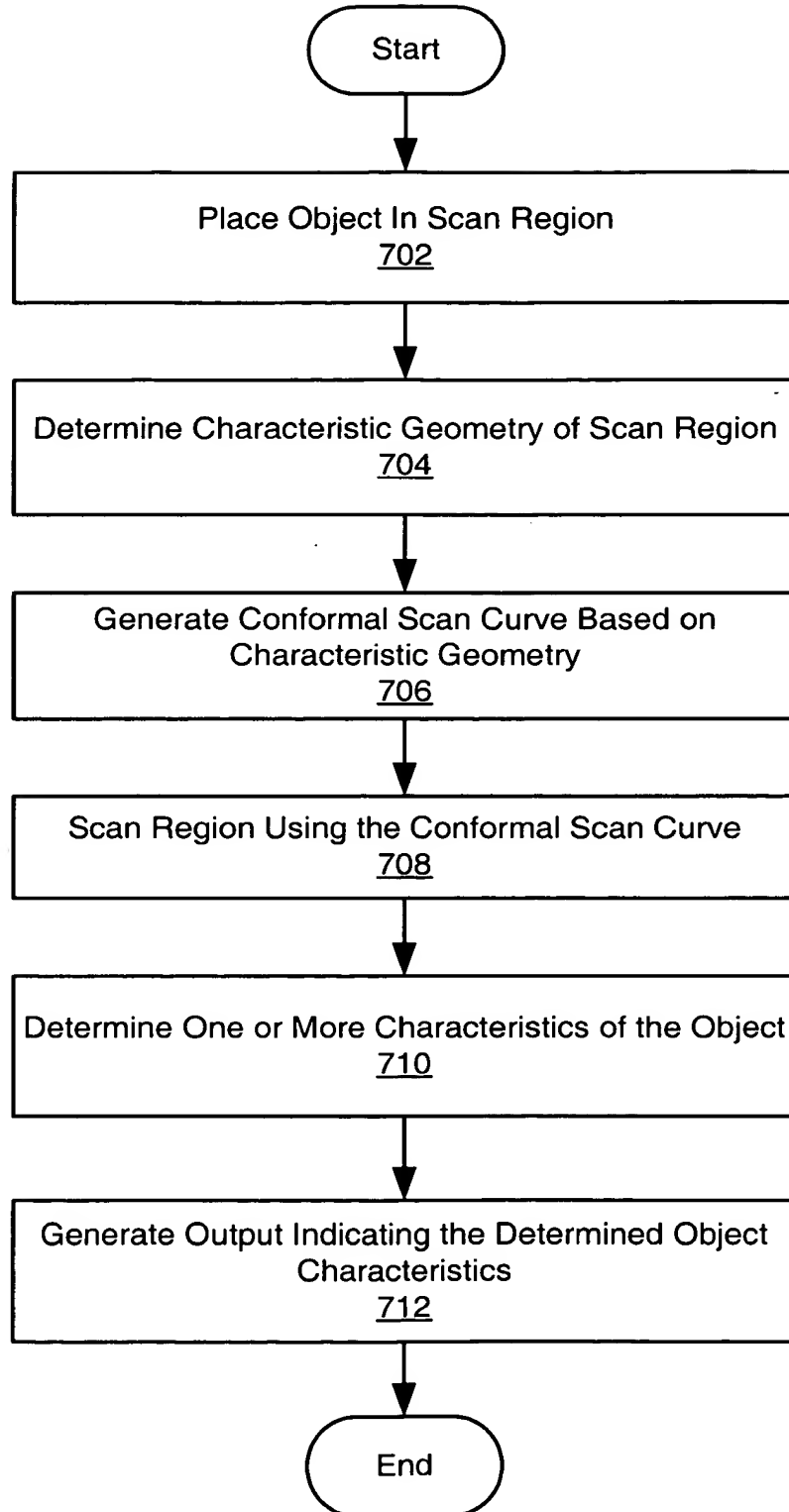
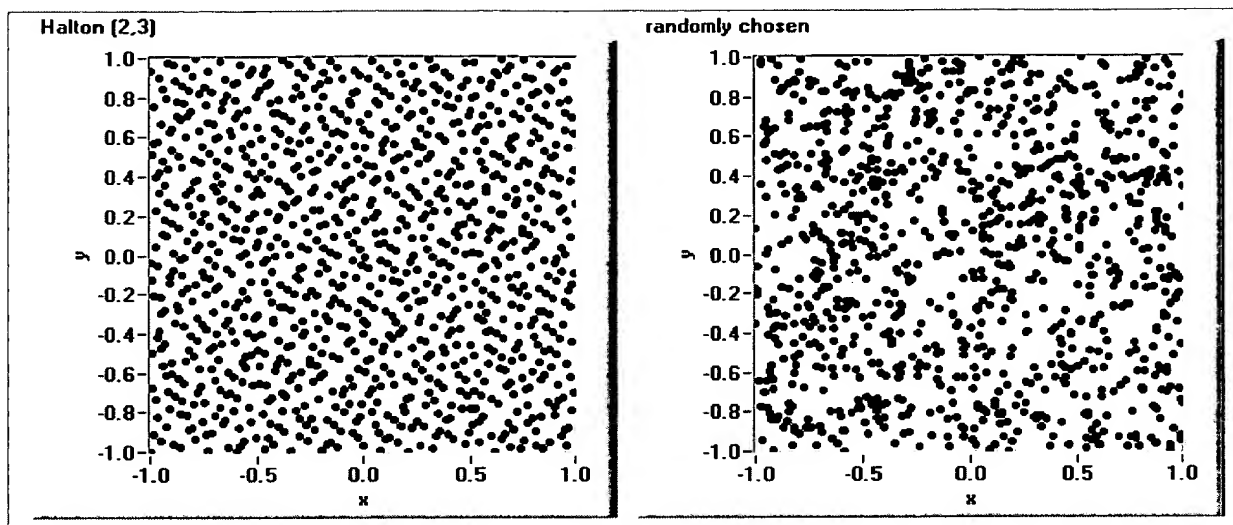
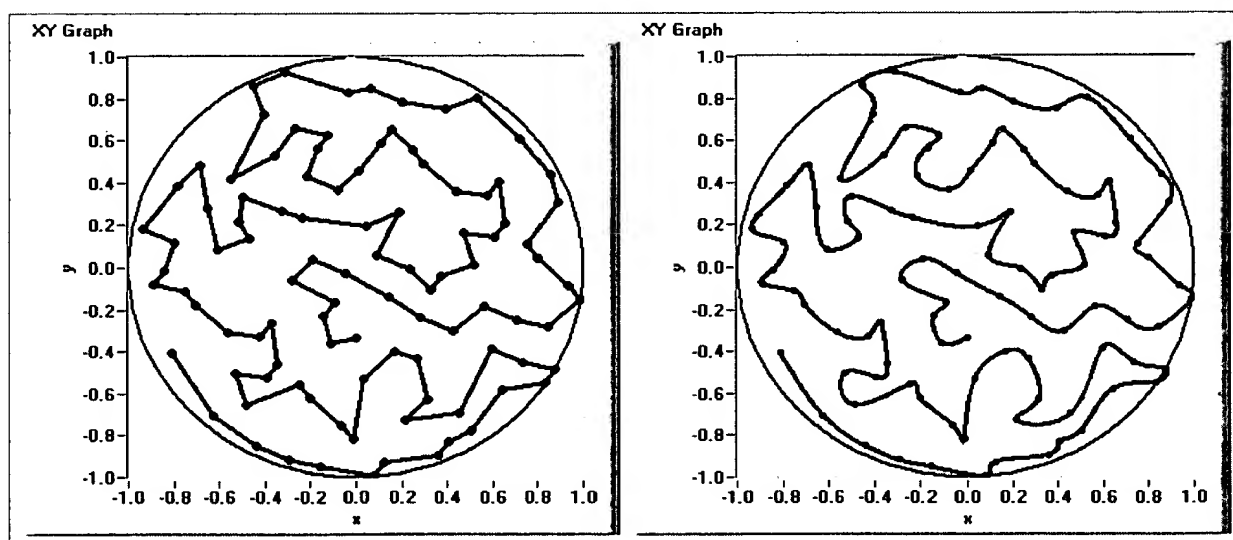


Figure 07



The first 1000 Halton points (left) and randomly chosen points (right)

Figure 8A



Original solution (left) and splined version (right).

Figure 8B

09876977-060804

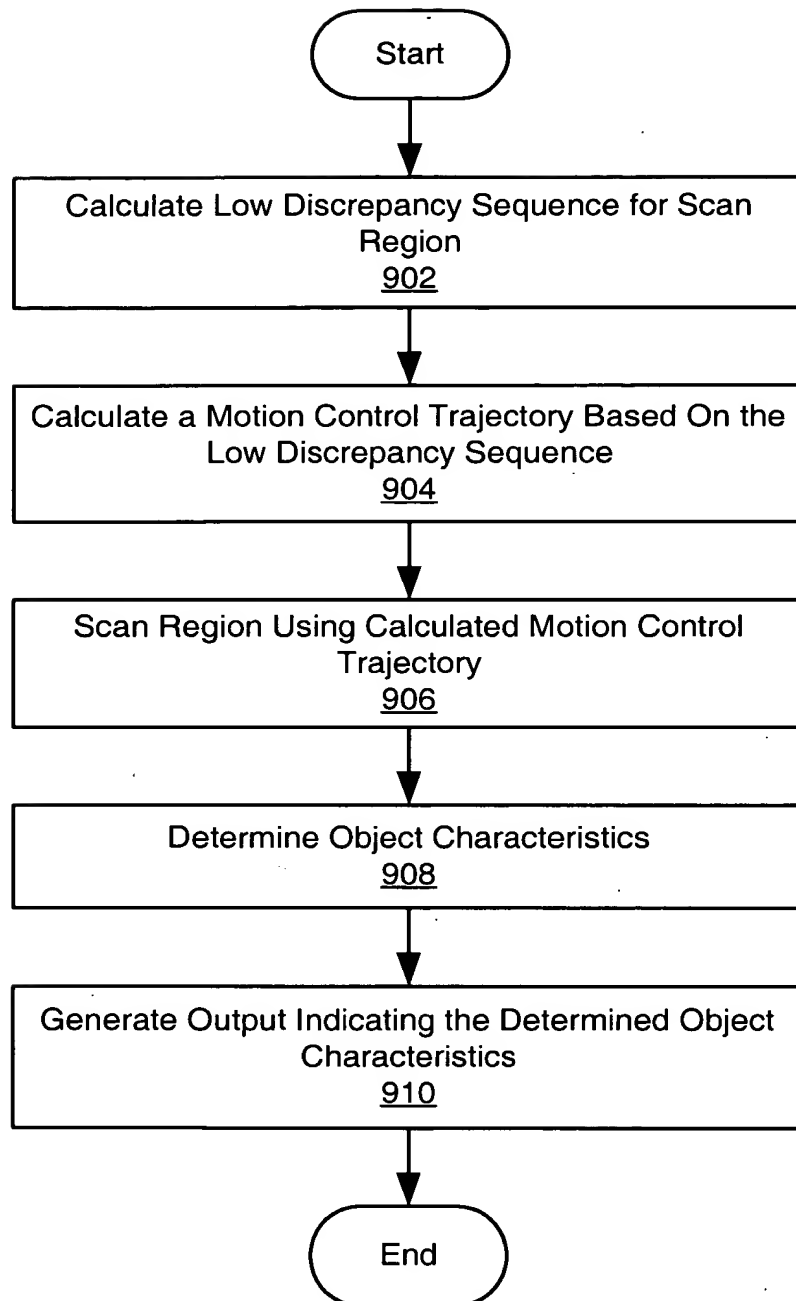
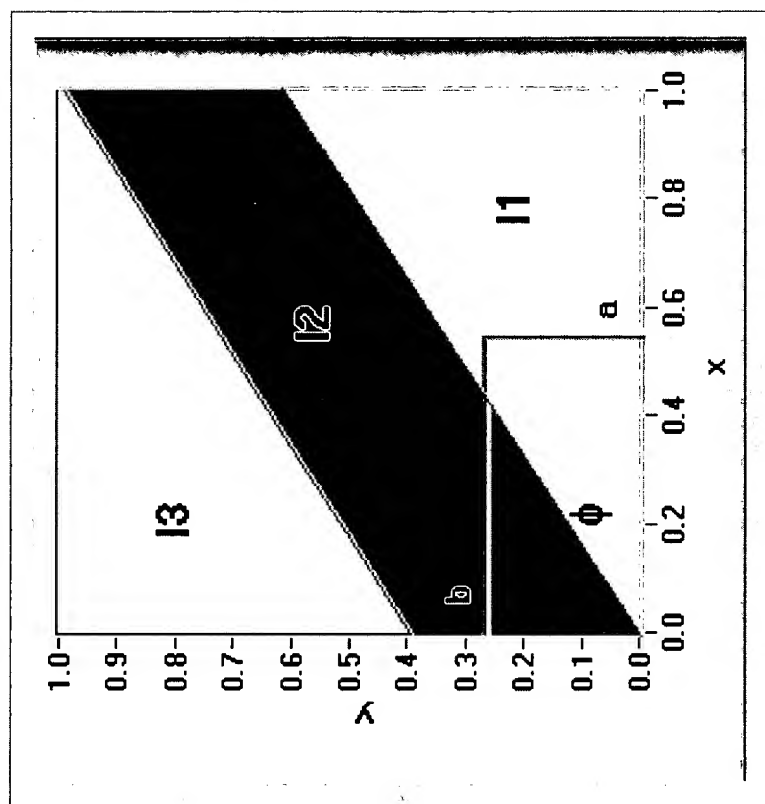


Figure 9



Definition of I_1 , I_2 , and I_3

Figure 10

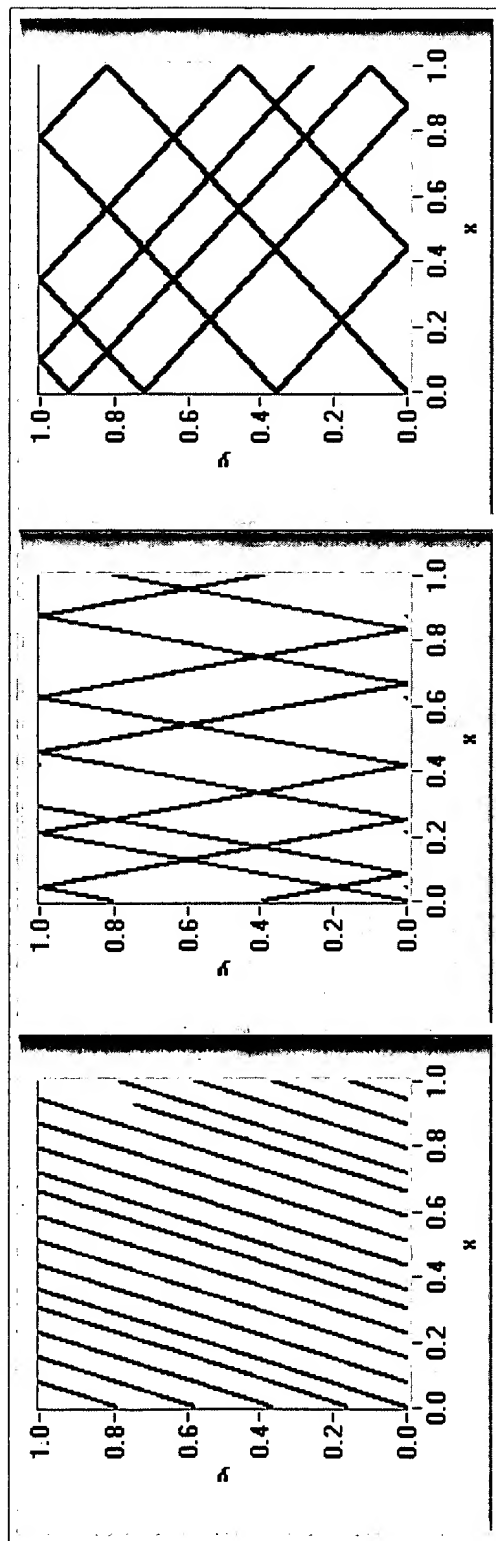


Figure 11A

Figure 11B

Figure 11C

FIGURE 12A

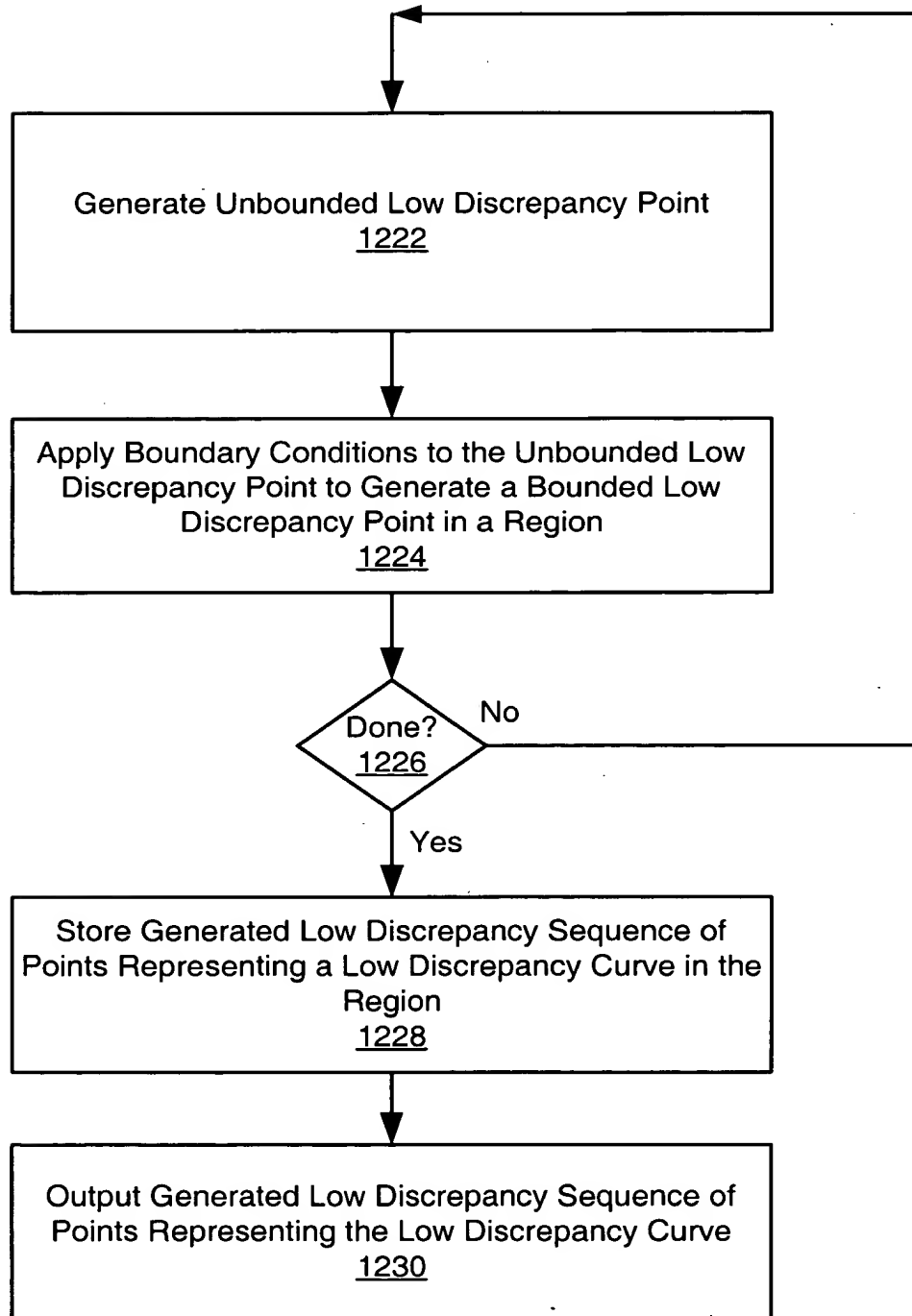


Figure 12A

FIG. 12B

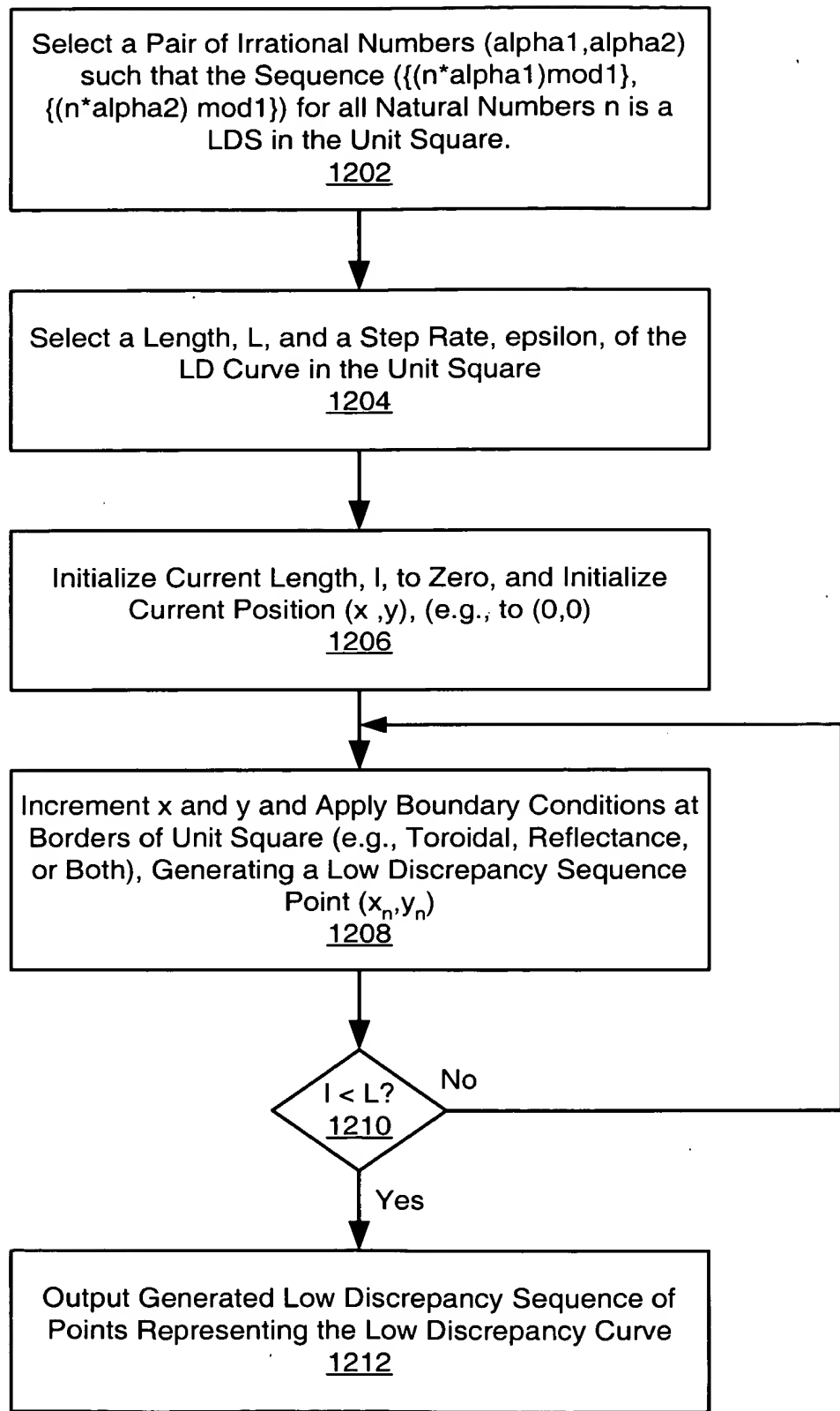


Figure 12B

Figure 13A:

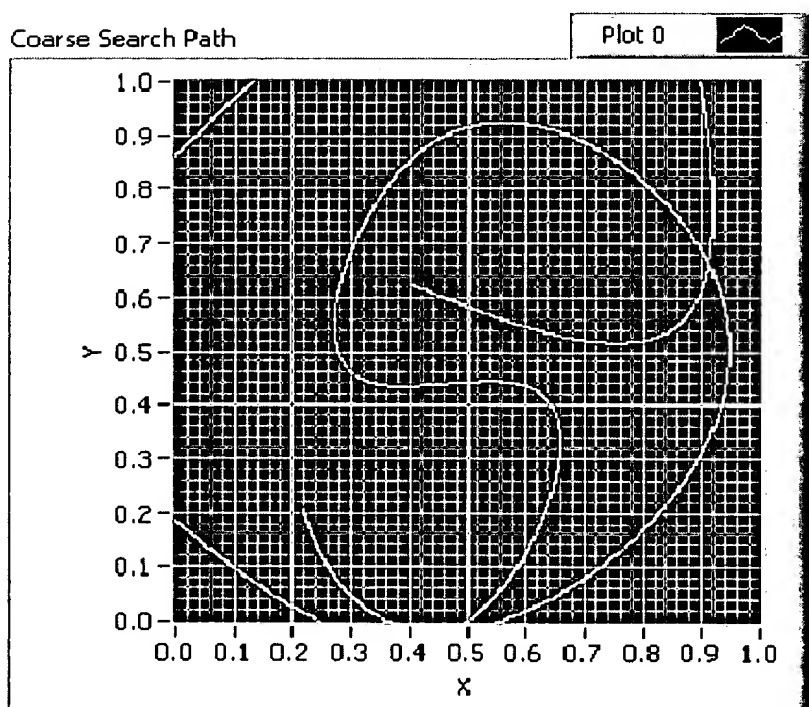


Figure 13B

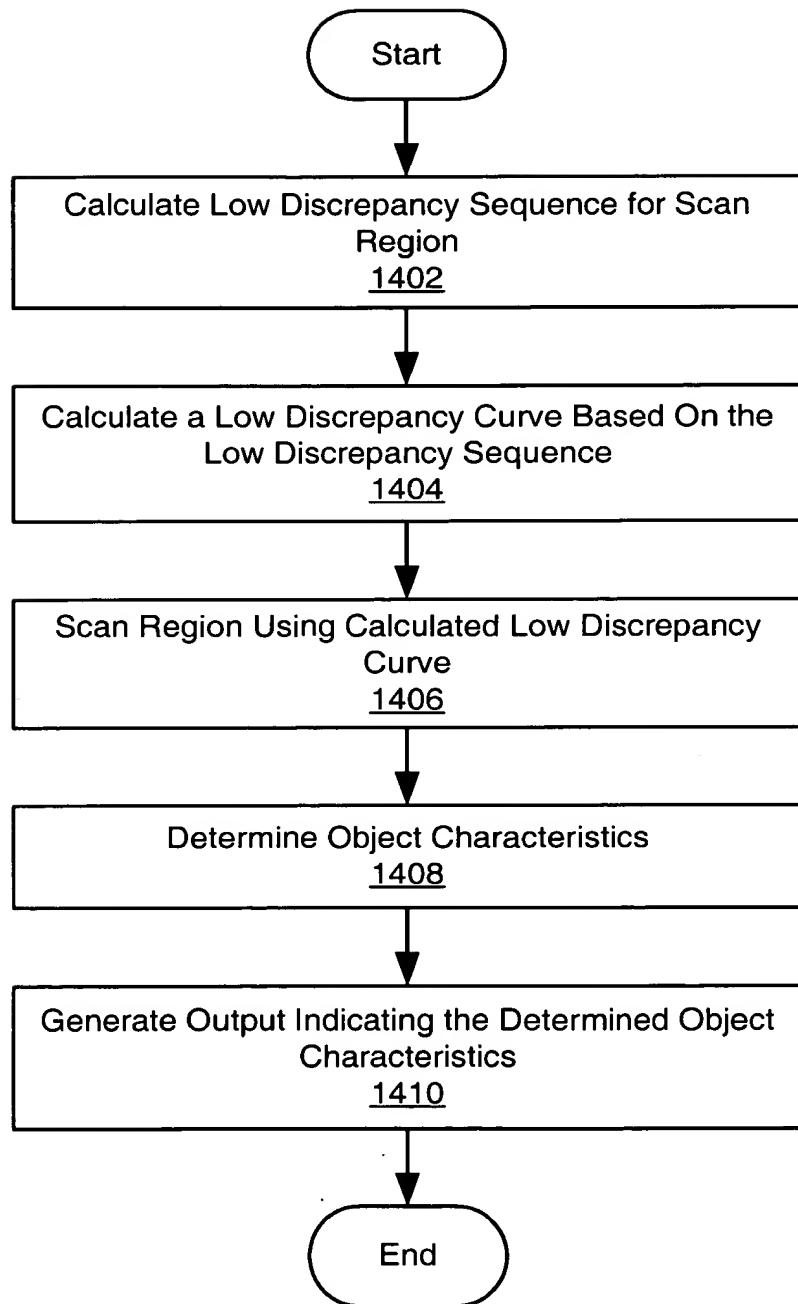
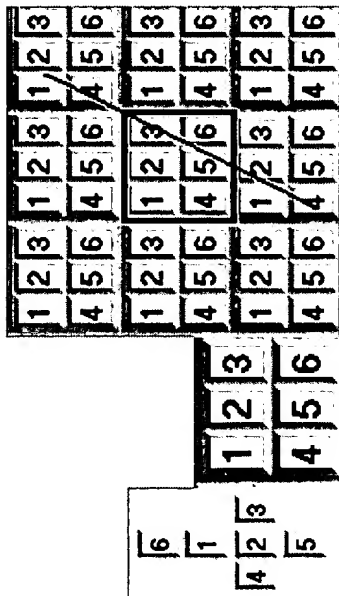


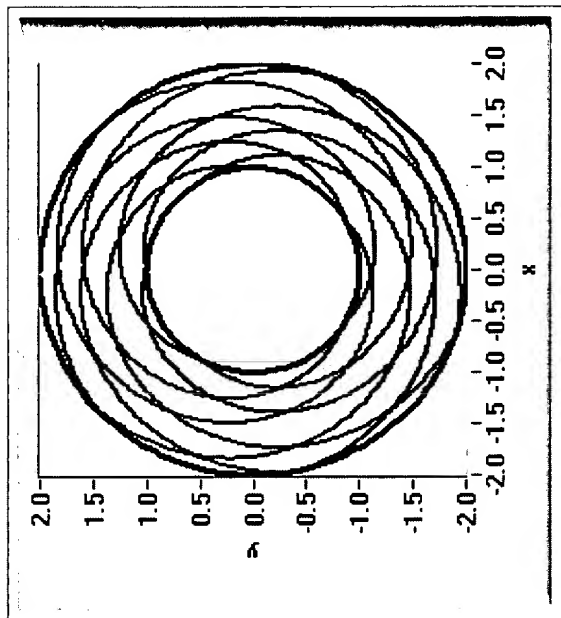
Figure 14

108080" 22692360



Tiling of the plane and relation to the surface of the unit cube

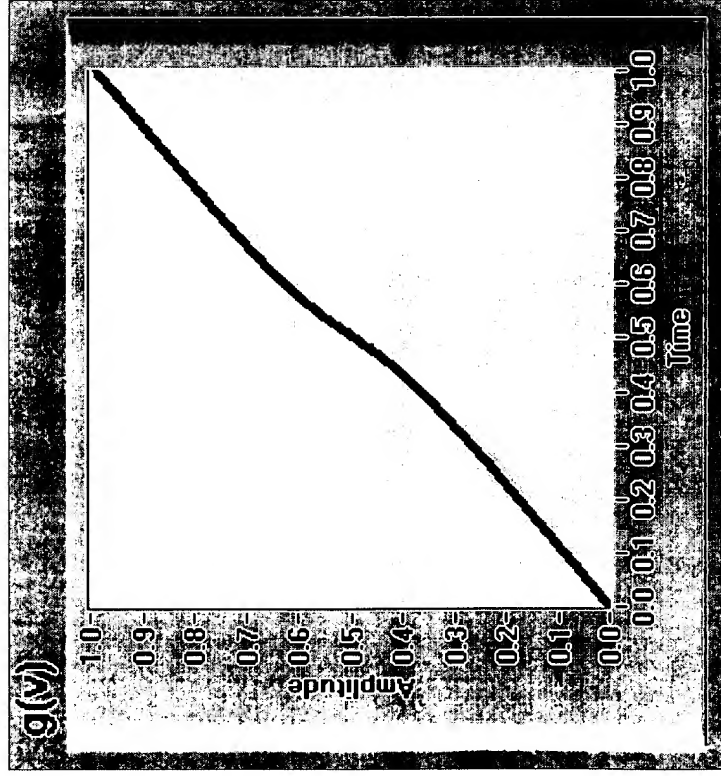
Figure 15A



Low-discrepancy curve in a ring

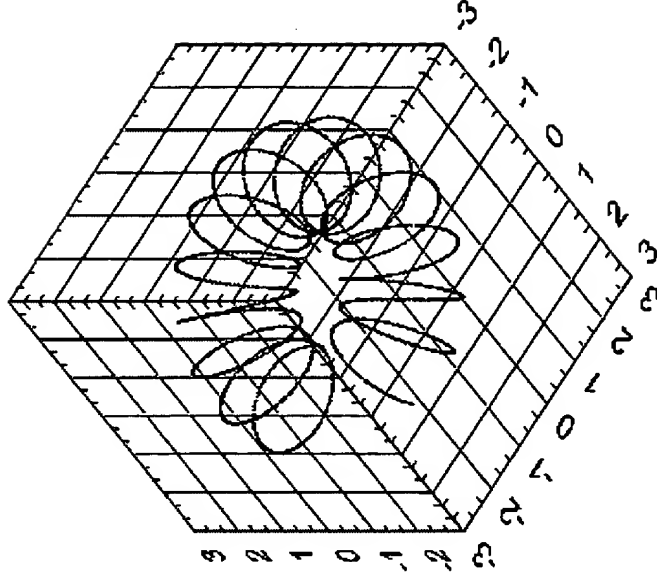
Figure 15B

708030" 44694800



Low Discrepancy Preserving Mapping Function

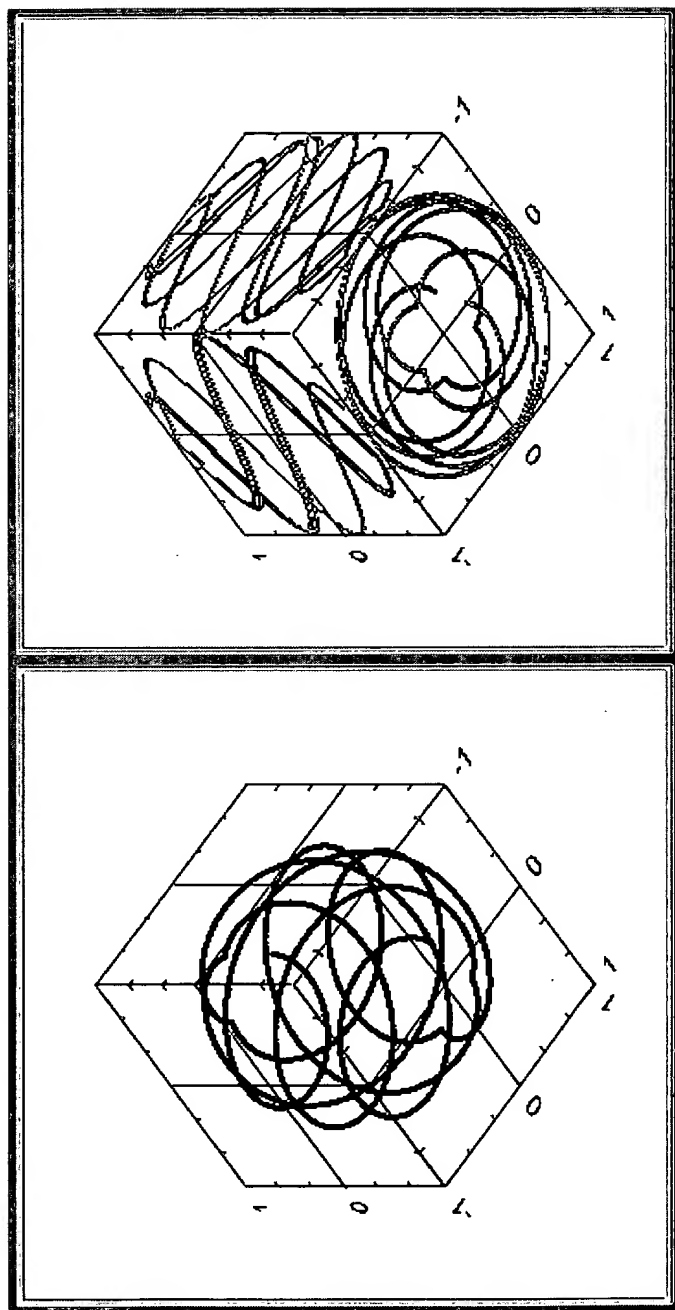
Figure 15C



Low-discrepancy curve filling the surface of a torus

Figure 15D

106050 4692860



Low-discrepancy curve on a sphere
(left) and projections (right)

Figure 16

108090 77692862

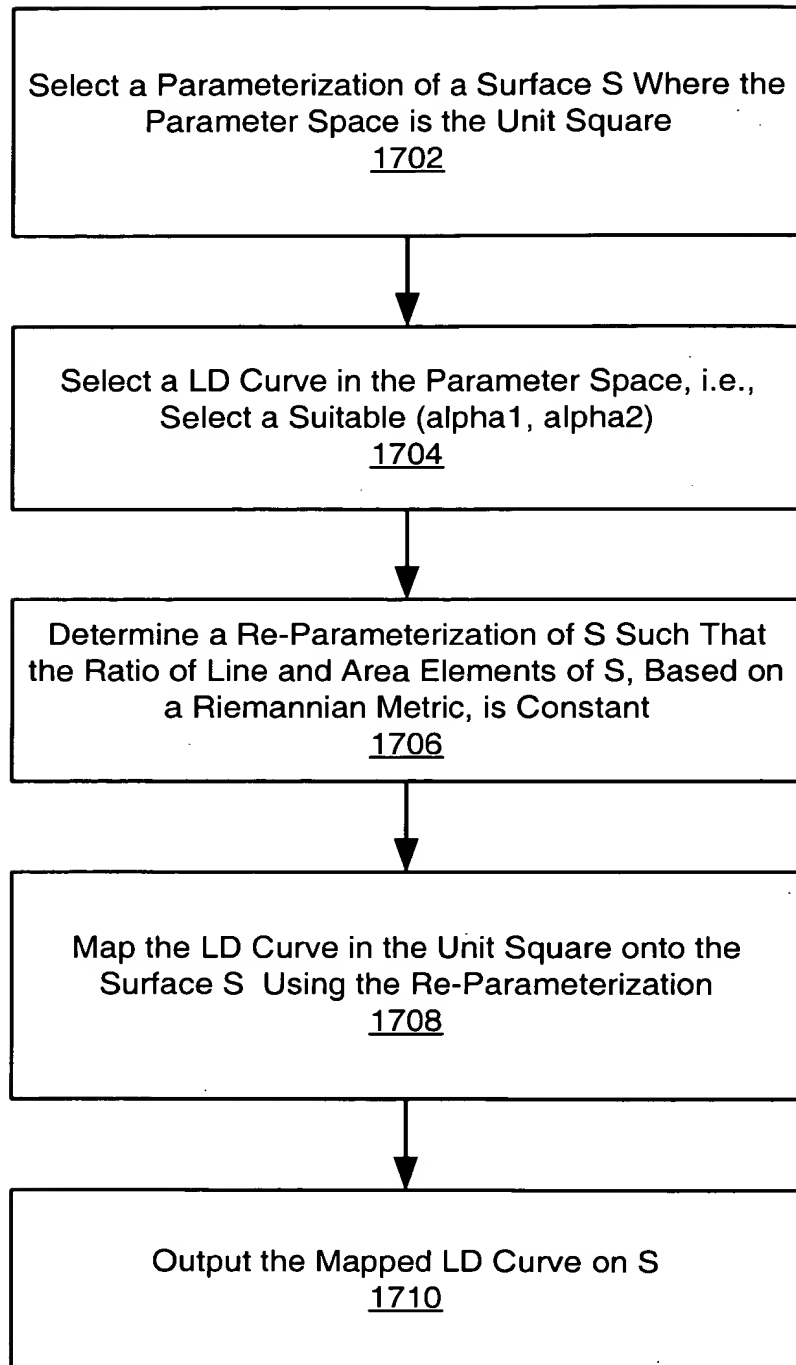
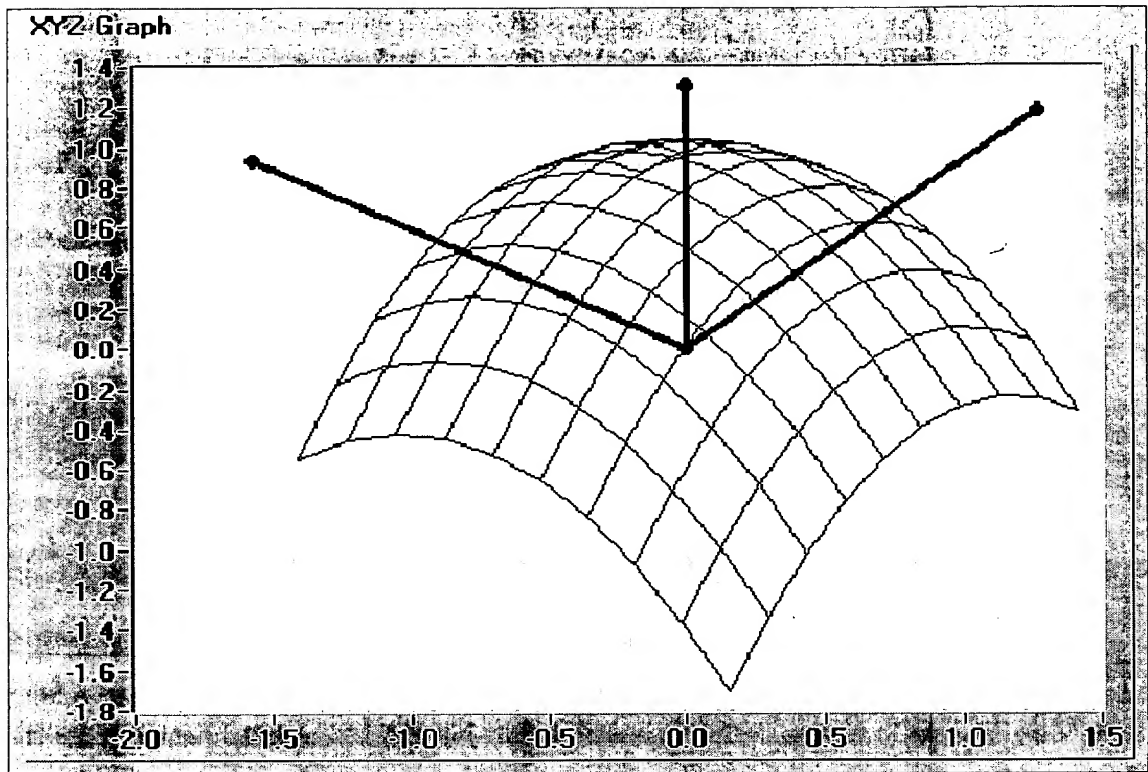


Figure 17

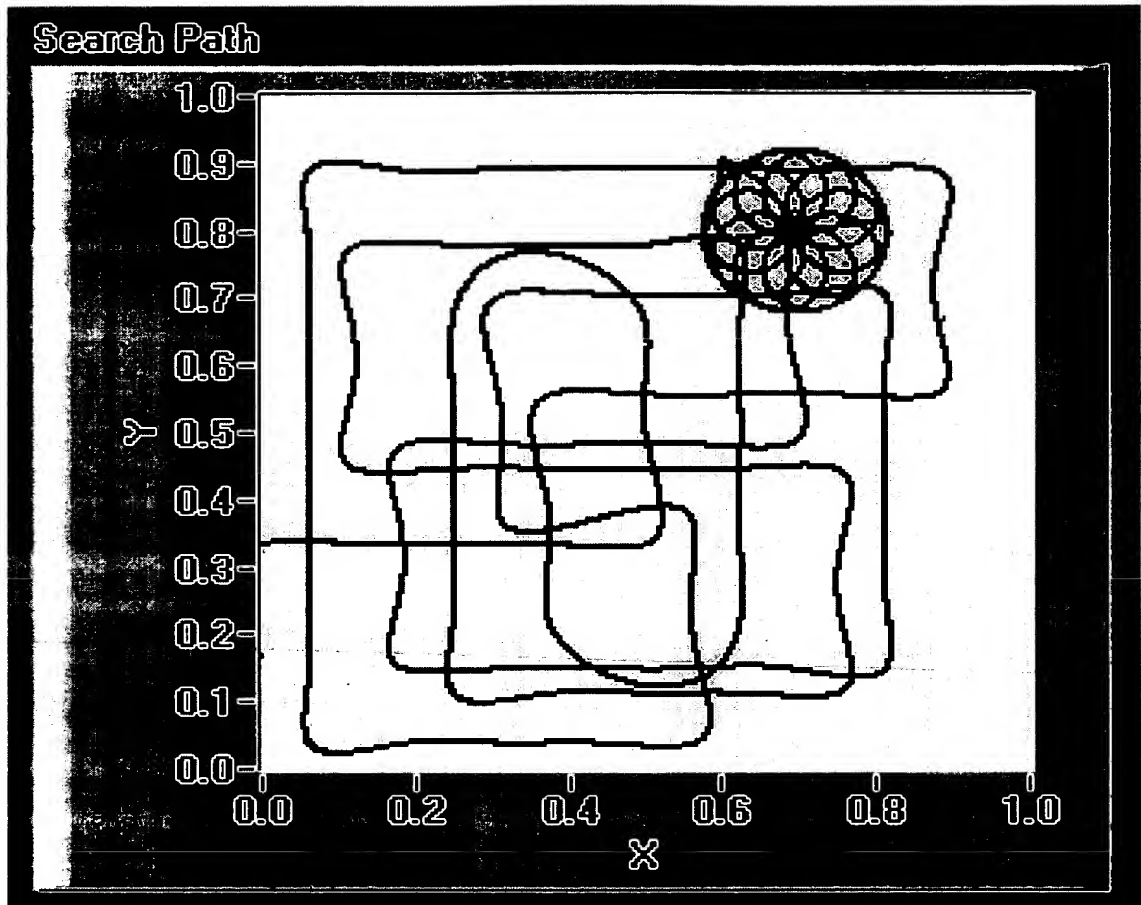
09876977-060801



Surfaces can be scanned efficiently when the term low discrepancy sequence/ curve can be generalized, e.g. based on metrics on the surface.

Figure 18

09876977.060834

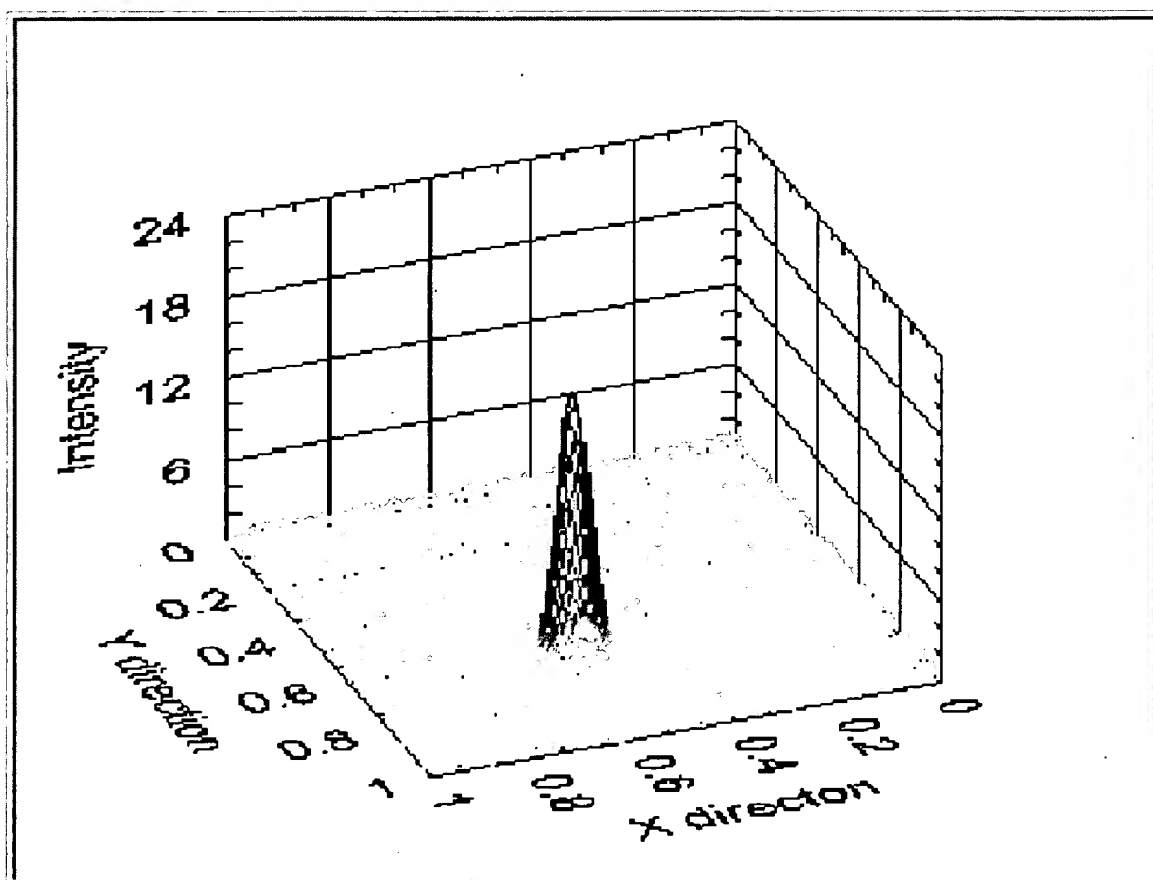


Splined Low Discrepancy Curve coarse search with refined final approach

Figure 19

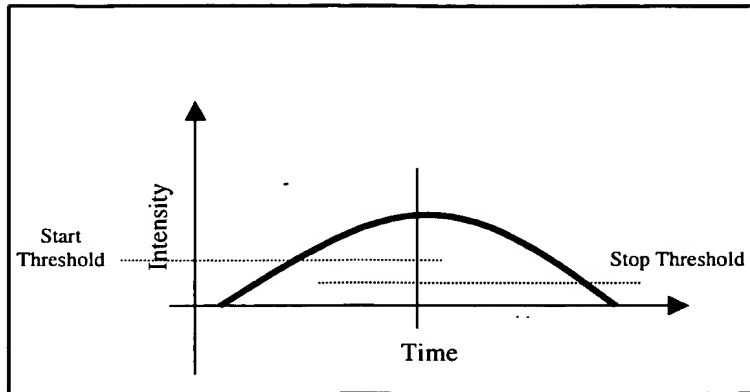
09876577.060801

Intensity Field Distribution in Search Area

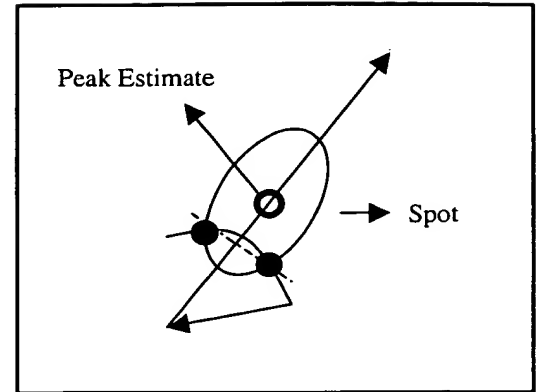


Beam intensity distribution in search area

Figure 20



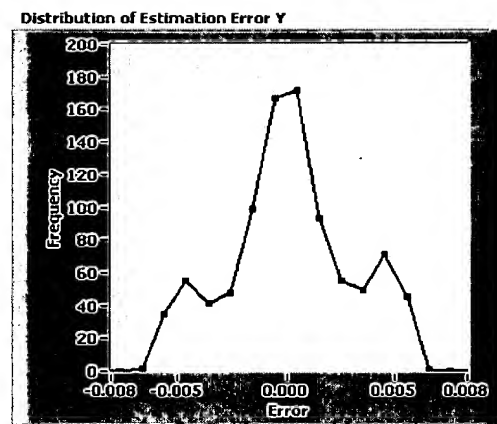
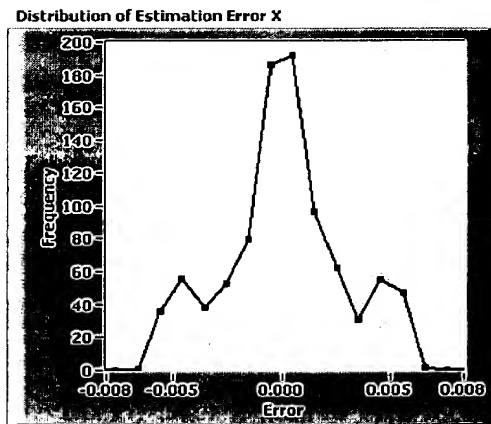
Location of the Peak



Initial Final Approach Move

Figure 21A

Figure 21B



Error distribution of the estimated peak X coordinate error (left) and Y coordinate error (right)

Figure 21C

09876977-060801

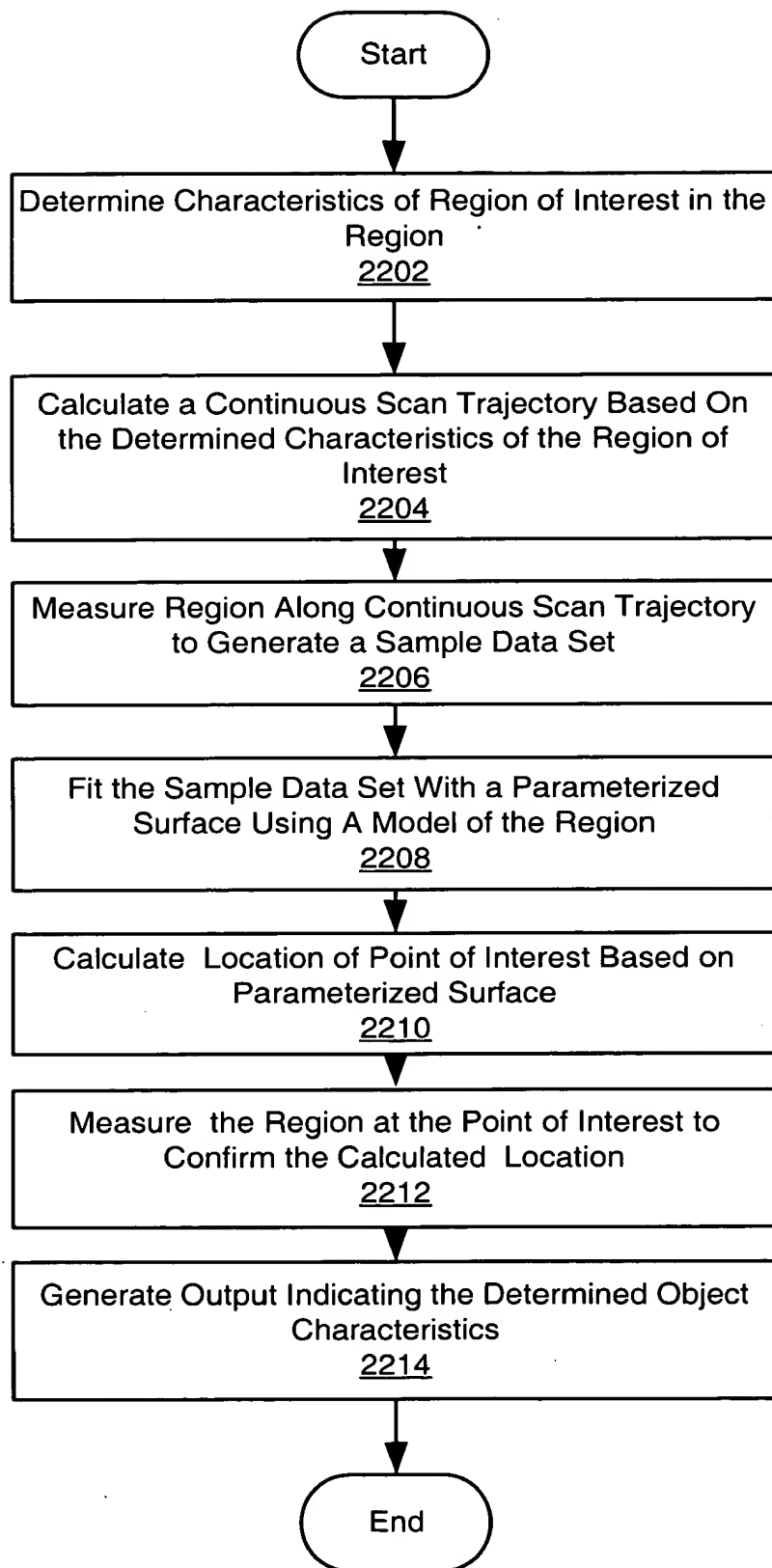


Figure 22

09376977-250801
T08092 22992860

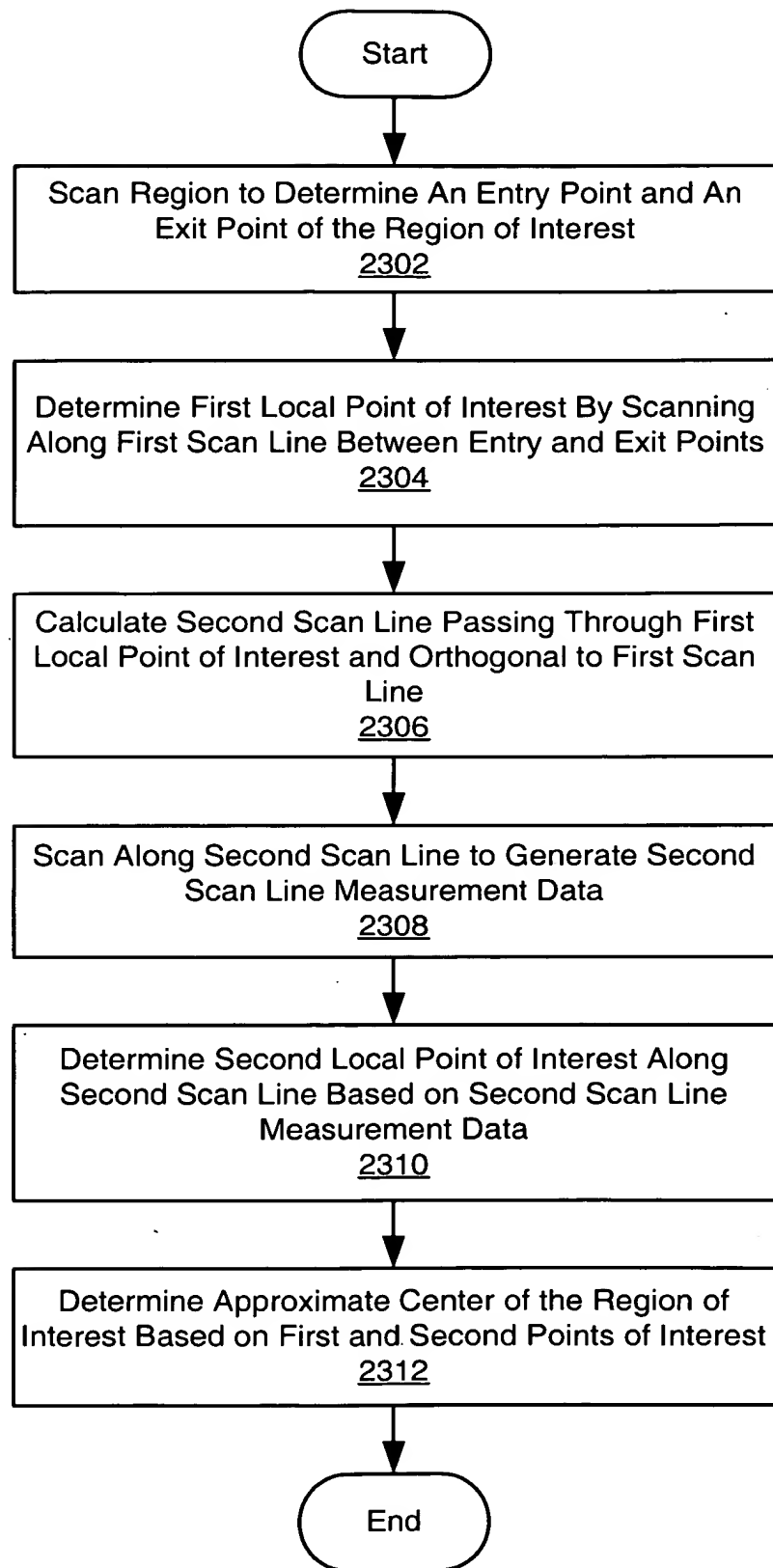


Figure 23

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☒ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER: _____**

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.